25X1

D R	A ]	F T:		kmc
19 1	May	197	1	

MEMORANDUM FOR: Deputy Director of Central Intelligence

THROUGH Executive Director-Comptroller

Director, Office of Planning, Programming

& Budgeting

Assistant Deputy Director for Intelligence

SUBJECT Request for Approval to Contract for the

Design and Fabrication of a Dual Format Data Block Reader with Fairchild Space & Defense Systems Division at a Cost of

from FY-1971 R&D Funds

25X1

1. This memorandum requests approval for the commitment of R&D funds for a NPIC contract. The specific request is stated in Paragraph 🗞.

The National Photographic Interpretation Center, through NSCID #8 and the National Tasking Plan, is charged The Francis Concerns of with with providing the most effective, timely, and economic exploitation of photography and remote sensory products. The Complex

soch as of dating and mairitaining the National Data Base port to the Intelligence Community, Reference is made	and maintains
to the manual,	e bre mo M 522X.
October 1970, Page 9 which states: "NPIC will	25X
maintain a backup capability to the Mission Performance	
Report (MPR). In the event the MPR cannot be made avail	
able, NPIC will develop ephemeris and frame data based	
on telemetry tapes provided from the	25 <b>X</b> ′
and actual film formats. This information	25 <b>X</b> 1

will then be made available to all MPR recipients." 🕕

25X1

25X1

SUBJECT: Request for Approval to Contract for the Design and Fabrication of a Dual Format Data Block Reader with Faichild Space & Defense Systems Division at a Cost of R&D Funds

25X1

is this requirement the subject request is addressing.

While NPIC has been aware of this, backup data requirement for quite some time, a new responsibility has recently been introduced. Latest reports indicate that the MPR, which preceeds each mission, will not carry the time data read-out required for data reduction of the Mapping Camera It will therefore be necessary 25X1 System for NPIC to mechine read the time data from each frame Stellar/Terrain photography after receipt of the film in the Center. The main camera system time readout, which is included in the MPR, will not suffice for the Mapping Camera System since the two systems are separately operated and it is possible that the conjugate imagery can have as much as 100% or as little as no duplicate coverage between the terrain camera and the main panoramic cameras. The proposed Dual Format Data Block Reader (DFR)

reading time data from both the stellar and terrain camera formats

This electro-mechanical device will read the data from either of two predetermined formats, on negative or positive film, with the film trans-

25X1

25X1

The DFR will

ported at a rate of 12 inches per second.

4. Investigation into manually providing this readout has shown that for the 4000 frames information involved, it may be possible by interpolation, to provide this data within The system (time readout to 0.1 millisecond) will not be maintained by interpolation of the data. Additionally, approval has been granted to replace the 3400 type film with ultra thin base film in the fourth 5/I package - which will increase the frame count from approximately 4000 frames to approximately 7000 frames -Virtually an impossible fosk for manual read-out. It is anticipated that Center, operations will require and make the utmost use of this reflied accoracy inherent in the Stellar-Terrain system, as it will formish target positional information several magnitudes better than current systems. Additionally, the Mapping, Charting and Geodetic (MCG) groups in the Intelligence Community will met to use the data in their exploitation for position refinement.

Declassified in Part - Sanitized Copy Approved for Release 2012/10/24: CIA-RDP79B00873A001800020008-6

Request for Approval to Contract for the Design SUBJECT: and Fabrication of a Dual Format Data Block Reader with Fairchild Space & Defense Systems from FY-1971 Division at a Cost

R&D Funds

25X1

locate, read, organize, and place the data on magnetic tape with appropriate recognition patterns to be made The data from the stellar data block will be combined with in turn combined with the existing MPR of the mission.

An operator will be able to select a mode of operation, initiate signals, monitor, and exercise controls through the front panel assembly of the DFR.

The effort is felt to be fairly straight-forward with little risk involved due to the fact that the selected contractor has built similar readers for the Center. first reader was built to handle the KH-4A data, while the second will handle the KH-4B and the Stellar/Terrain data

Investigation into modification of the second reader to handle the material revealed that it would be more expensive to modify the existing equipment than to build a new reader specifically for the

The contractor has offered NPIC the choice of two options for this project. One in which he supplied the reader, the magnetic tape drive and the printer. The second option was for the magnetic tape drive and its electronics, and the printer and associated electronics to be supplied as

25X1

25X1<sup>1</sup>

25X1

Declassified	n Part - Sanitized	d Copy Approved for Re	lease 2012/10	)/24 : CIA-RDP79B00	873A001800020	0008-6 1			
	SUBJECT: R	equest for Appro- and Fabrication Reader with Fair Division at a Co R&D Funds	of a Dual rchild <u>Spa</u>	. Format Data Bl	lock ystems	25X1			
	GFE. The s	econd option is	the more d	lesirable, not (	on1y				
	because it	saves	ut also be	ecause the equip	pment	25X1			
	can be easi	ly supplied GFE	since only	one of the two	)				
	complete sy	stems is being u	tilized wi	thin NPIC. The	ere is				
	no anticipa	ted follow-on to	this prod	curement, as one	e instru-				
	ment will handle the anticipated work load.								
	8.			will be the P	roject	25 <b>X</b> 1			
	Officer for	this contract.			is	25 <b>X</b> 1			
	appropriate for this work. Agency association with the								
	project will be classified CONFIDENTIAL, but the work,								
	project title and reports will be UNCLASSIFIED.								
	9. It	is requested th	at approva	al be granted to	o ne-				
	gotiate a c	contract with Fai	child Spac	ce and Defense	Systems				
	for the design and fabrication of a Dual Format Data Block								
	Reader at a	cost not to exc	eed	from FY-197	1 R&D	25 <b>X</b> 1			
	funds.								
•									

## ARTHUR C. LUNDAHL Director

National Photographic Interpretation Center

## Attachments:

- 1. Proposal 2. Form 2420

25X1

SUBJECT:

Request for Approval to Contract for the Design and Fabrication of a Dual Format Data Block Reader with Fairchild Space & Defense Systems Division at a Cost of

from FY-1971

R&D Funds

25X1

**CONCUR:** 

Assistant Deputy Director for Intelligence

Date

APPROVED:

Deputy Director of Central Intelligence

Date

Distribution:

Original - DDCI

1 - DDCI

1 - ER

1 - ADDI

1 - O/PPB

1 - Exec. Dir.-Compt.

2 - NPIC/ODir

1 - NPIC/TSG